Figure 1.

A.


GGGGAAGATCTAAAAA NNNNNNNNNNNNNNNNNNN TTTTTAAGCTTGGGG
Annealed with Primer P1
GGGGAAGATCTAAAAA NNNNNNNNNNNNNNNNNNN TTTTTAAGCTTGGGG
AAAAATTCGAACCCC
Filling in with Klenow fragment
GGGGAAGATCTAAAAA NNNNNNNNNNNNNNNNNNN TTTTTAAGCTTGGGG
CCCCTTCTAGATTTTT NNNNNNNNNNNNNNNNNNN AAAAATTCGAACCCC
Cleavage with Hind III / Bgl II
GATCTAAAAA NNNNNNNNNNNNNNNNNNN TTTTTA
ATTTTT NNNNNNNNNNNNNNNNNNN AAAAATTCGA
Cloning into a plasmid with H1 promoter in re-versed direction
GATCTAAAAA NNNNNNNNNNNNNNNNNNN TTTTTA
ATTTTT NNNNNNNNNNNNNNNNNNN AAAAATTCGA
H1 promoter
plasmid

B.

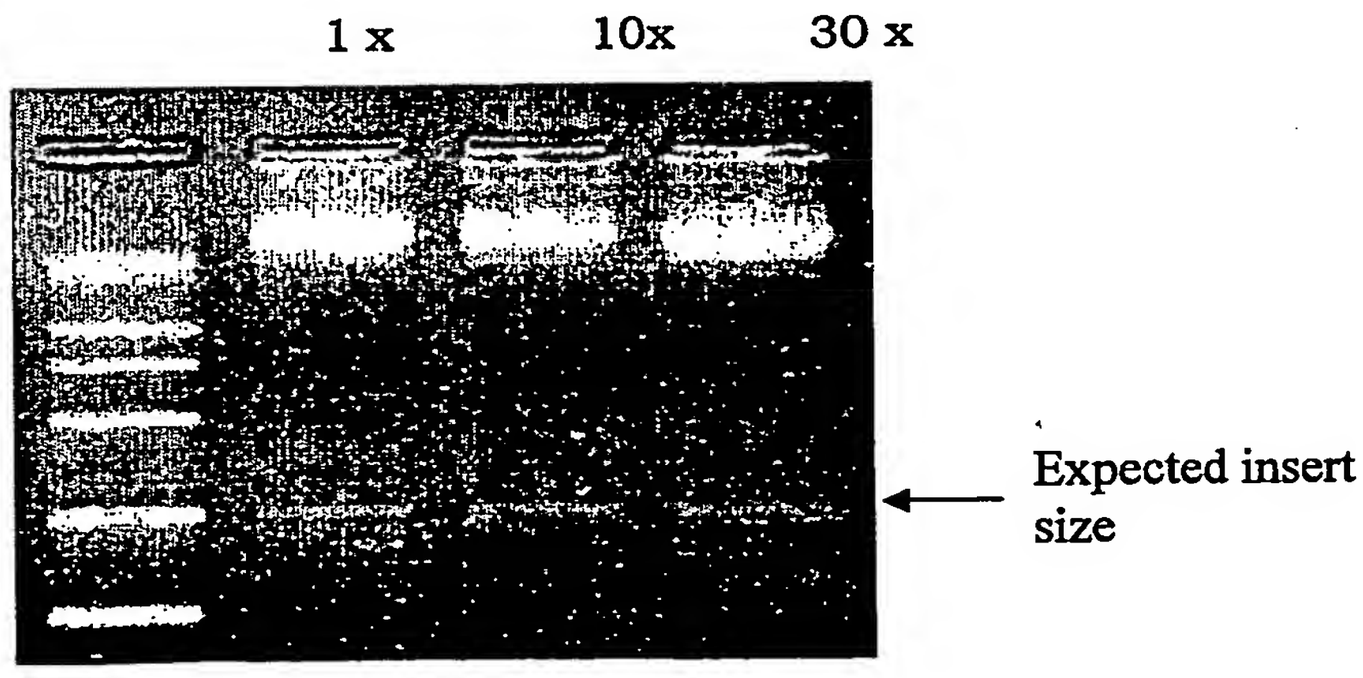
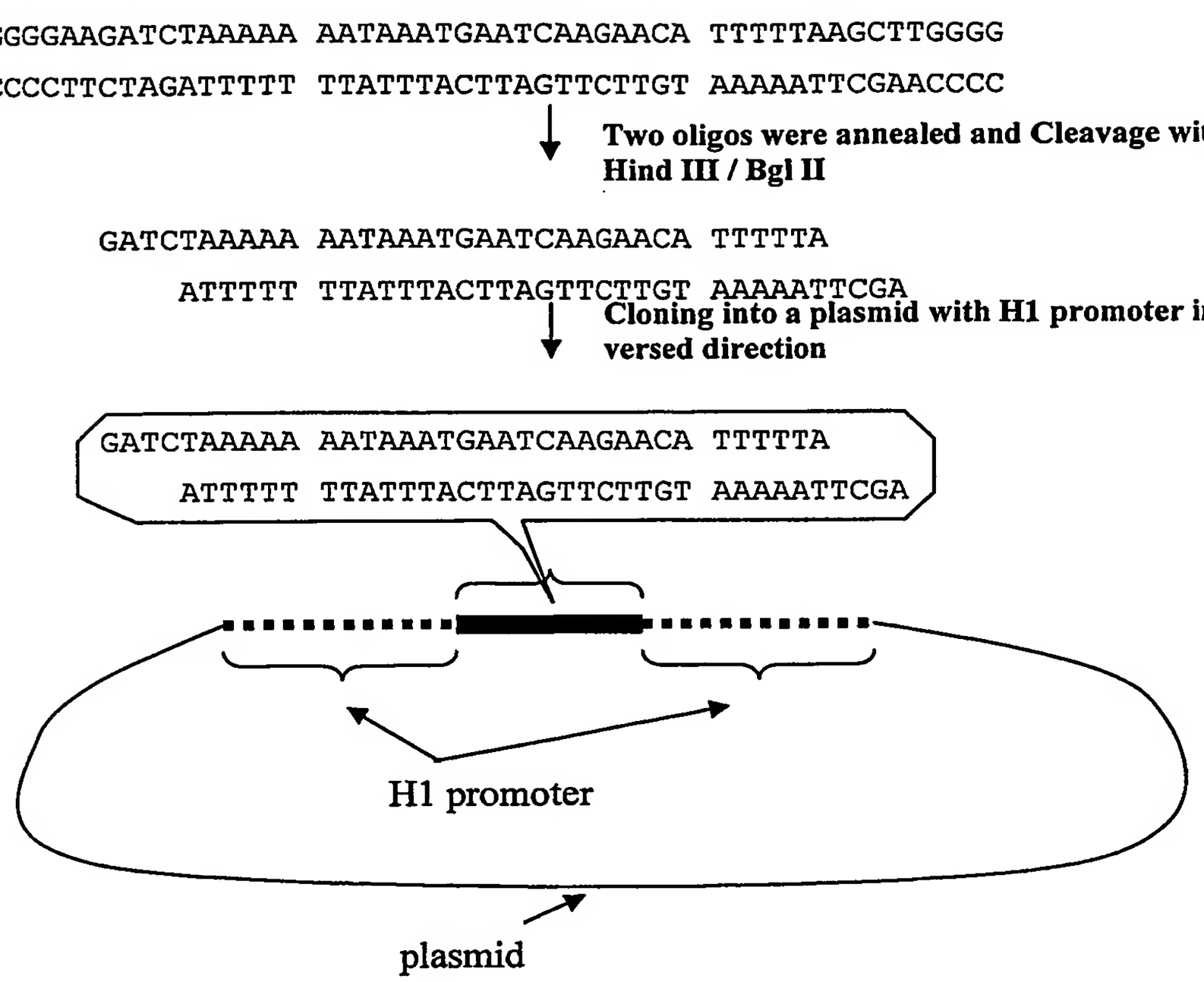

1 x
10x
30 x
Expected insert size

Figure 2.

A.


GGGGAAGATCTAAAAA AATAAATGAATCAAGAACA TTTTTAAGCTTGGGG
CCCCTTCTAGATTTTT TTATTTACTTAGTTCTTGT AAAAATTCGAACCCC
Two oligos were annealed and Cleavage with Hind III / Bgl II
GATCTAAAAA AATAAATGAATCAAGAACA TTTTTA
ATTTTT TTATTTACTTAGTTCTTGT AAAAATTCGA
Cloning into a plasmid with H1 promoter in re-versed direction
GATCTAAAAA AATAAATGAATCAAGAACA TTTTTA
ATTTTT TTATTTACTTAGTTCTTGT AAAAATTCGA
H1 promoter
plasmid

B.

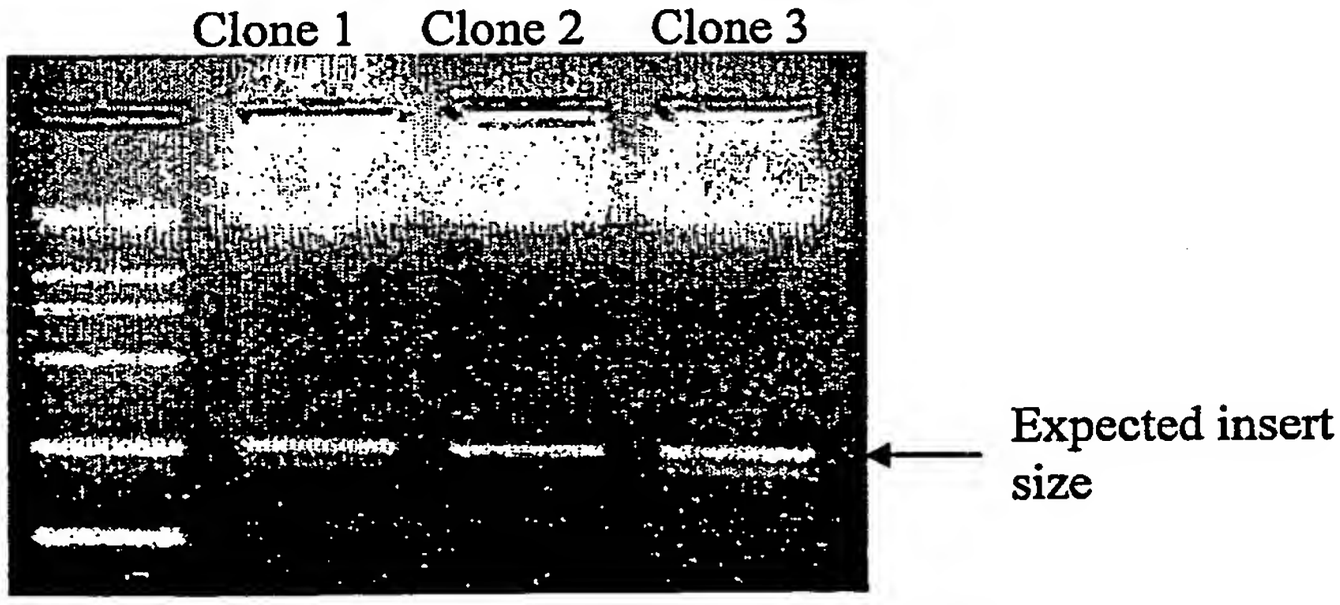

Clone 1
Clone 2
Clone 3
Expected insert size

Figure 2 (contd)

C.

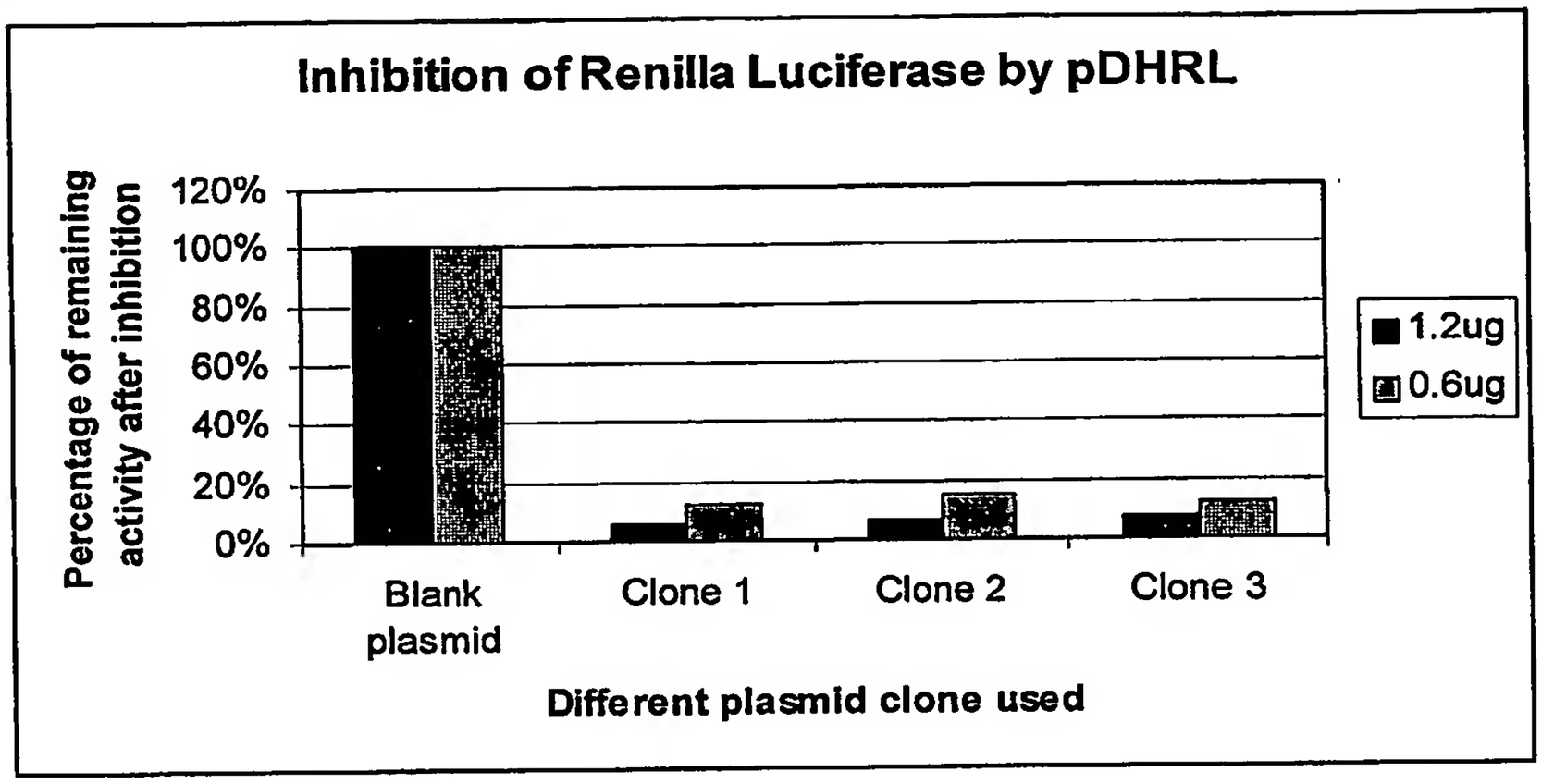
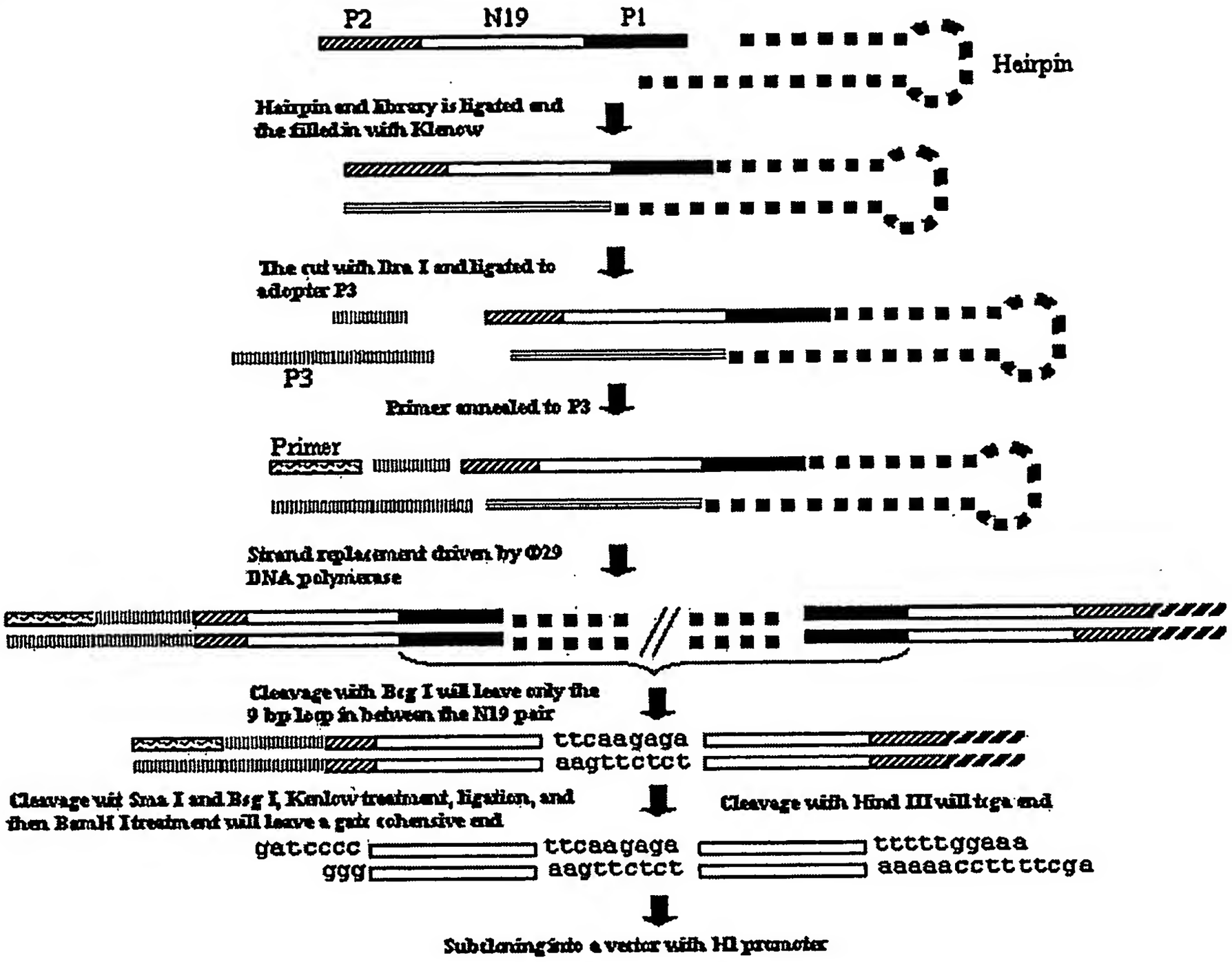


Figure 3.

A.




B.

P1: TTC AAG AGA

P2. ACA AAG CTT TTC CAA AAA

N19: NNN NNN NNN NNN NNN NNN N

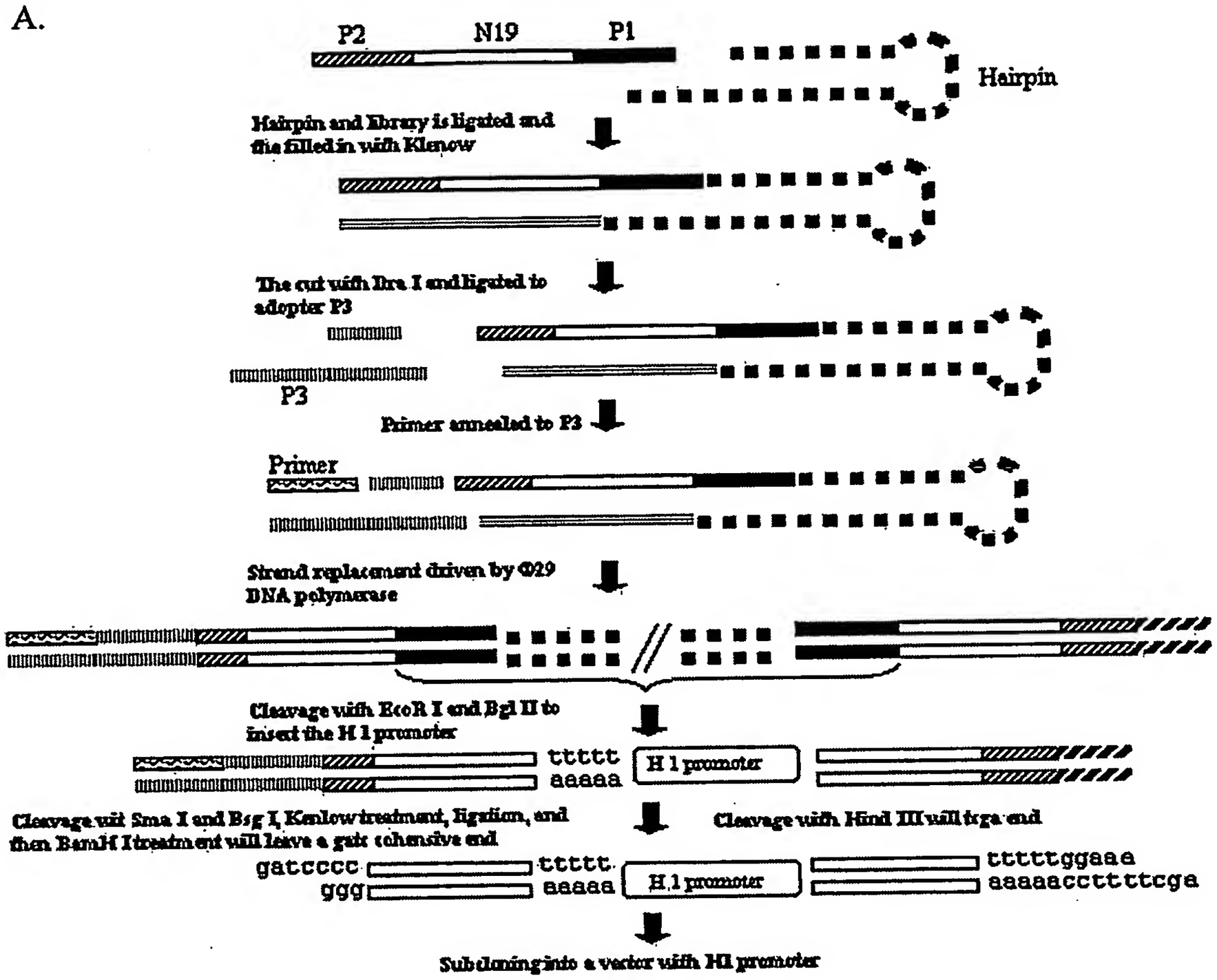
Hairpin: CAC ACG TGT CTT CGA ACA CAA TGC TAA TCT CTT GAA

P3: AGC TTA CTG CAC CC GGG GAT CCT GTT

Primer: AAC TGG ATC CCC GGG GTG CAG

Figure 4.

A.




B.

P1: TTT TTG GAT CC

P2. ACA AAG CTT TTC CAA AAA

N19: NNN NNN NNN NNN NNN NNN N

Hairpin: GGG AGA TCT TCG CTT CAA CGA AGA TCT CCC GGA TCC AAA AA

P3: AGC TTA CTG CAC CC GGG GAT CCT GTT

Primer: AAC TGG ATC CCC GGG GTG CAG